

1. An isolated nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of SEQ ID NOS:1, 3, 4, 6, 7, and 9.

2. An isolated nucleic acid molecule consisting of a nucleotide sequence selected from the group consisting of SEQ ID NOS:1, 3, 4, 6, 7, and 9.

3. An isolated nucleic acid molecule comprising a nucleotide sequence which is at least 60% identical to a nucleotide sequence selected from the group consisting of SEQ ID NOS:1, 3, 4, 6, 7, and 9.

4. A nucleic acid molecule encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:2.

5. A nucleic acid molecule encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:5.

6. A nucleic acid molecule encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:8.

7. A nucleic acid molecule encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:8.

8. An isolated nucleic acid molecule that hybridizes to a nucleic acid molecule comprising SEQ ID NOS:1, 3, 4, 6, 7, or 9, or a complement thereof, under stringent conditions.

9. The nucleic acid molecule of claim 1 further comprising vector nucleic acid sequences.

10. The nucleic acid molecule of claim 1 further comprising nucleic acid sequences encoding a heterologous polypeptide.

11. A host cell which contains the nucleic acid molecule of claim 1 ✓

12. The nucleic acid molecule of claim 2 ✓ further comprising vector nucleic acid sequences.

13. The nucleic acid molecule of claim 2 ✓ further comprising nucleic acid sequences encoding a heterologous polypeptide.

14. A host cell which contains the nucleic acid molecule of claim 2 ✓.

15. The nucleic acid molecule of claim 3 ✓ further comprising vector nucleic acid sequences.

16. The nucleic acid molecule of claim 3 ✓ further comprising nucleic acid sequences encoding a heterologous polypeptide.

17. A host cell which contains the nucleic acid molecule of claim 3 ✓.

18. An isolated polypeptide comprising the amino acid sequence of SEQ ID NO:2.

19. An isolated polypeptide consisting of the amino acid sequence of SEQ ID NO:5.

20. An isolated polypeptide comprising the amino acid sequence of SEQ ID NO:8.

21. An antibody which selectively binds to a polypeptide of claim 20. ✓

22. A method for producing a polypeptide comprising culturing the host cell of claim 11, 14, or 17 under conditions in which the nucleic acid molecule is expressed. ✓

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23. A method for detecting the presence of a polypeptide of claim 20 in a sample, comprising:

- a) contacting the sample with a compound which selectively binds to a polypeptide of claim 8; and
- b) determining whether the compound binds to the polypeptide in the sample.

24. The method of claim 23, wherein the compound which binds to the polypeptide is an antibody.

25. The method of claim 23, wherein the sample is a sample suspected of being an endometrial stromal tumor.

26. A method for detecting the presence of a nucleic acid molecule of claim 3 in a sample, comprising the steps of:

- a) contacting the sample with a nucleic acid probe or primer which selectively hybridizes to the nucleic acid molecule; and
- b) determining whether the nucleic acid probe or primer binds to a nucleic acid molecule in the sample.

27. The method of claim 26, wherein the sample comprises mRNA molecules and is contacted with a nucleic acid probe.

28. The method of claim 26, wherein the sample is a sample suspected of being an endometrial stromal tumor.

29. A method for identifying a compound which binds to a polypeptide of claim 20 comprising the steps of:

- a) contacting a polypeptide, or a cell expressing a polypeptide of claim 8 with a test compound; and
- b) determining whether the polypeptide binds to the test compound.

30. The method of claim 29, wherein the binding of the test compound to the polypeptide is detected by a method selected from the group consisting of:

a) detection of binding by direct detecting of test compound/polypeptide binding; or

5 b) detection of binding using a competition binding assay.

31. A method for identifying a compound which controls proliferation of endometrial stroma comprising the steps of:

a) expressing jjaz in the presence of the compound, and

10 b) determining whether the compound affects expression of jjaz.

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